

ELECTRIC HYBRID VEHICLE

ABSTRACT OF THE DISCLOSURE

A hybrid vehicle is provided, which includes an
5 electric motor, an engine, first and second
electrical storage mechanisms, an energy conversion
device and a voltage reducer. The electric motor and
the engine are drivably connectable to propel the
vehicle. The first electrical storage mechanism
10 powers the electric motor. The energy conversion
device is continuously coupled to the engine for
providing a charging power output to the first
electrical storage mechanism whenever the engine is
running. The second electrical storage mechanism
15 provides power to vehicle accessories at a lower
voltage than the first electrical storage mechanism.
The voltage reducer has an input coupled to the
generator and the first electrical storage mechanism
and has an output coupled to the second electrical
20 storage mechanism to provide charging power at the
lower voltage to the second electrical storage
mechanism.